

1968 JUN 21 08 15Z

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Declassification Review by NGA

R 210616Z JUN 68

FM NPIC

TO DIA

BT

SECRET

CITE NPIC 4057

SUBJECT: EVALUATION OF GIANT SCALE MISSION S021

1. QUALITY SUMMARY: MISSION S021, FLOWN ON 24 MAY 1968, ACQUIRED AVERAGE QUALITY IMAGERY AS COMPARED TO THAT OBTAINED BY PREVIOUS GIANT SCALE MISSIONS. THE INTERPRETATION SUITABILITY OF THE MISSION IS CONSIDERED TO BE FAIR TO GOOD. GROUND RESOLUTION FIGURES ARE EMPIRICAL ESTIMATES BASED ON EVALUATIONS OF SIMILAR SENSORS AND A BAR AND A SPACE. THUS, A FIGURE OF [REDACTED] OBJECT COULD BE DETECTED. AS USUAL, THE BEST GROUND RESOLUTIONS LOCATED NEAR NADIR IN CLEAR AREAS. THE ORIGINAL NEGATIVES WERE USED TO DETERMINE THE FOLLOWING RESOLUTIONS:

- A. RIGHT OPERATIONAL OBJECTIVE CAMERA
- B. LEFT OPERATIONAL OBJECTIVE CAMERA
- C. RIGHT TECHNICAL OBJECTIVE CAMERA
- D. LEFT TECHNICAL OBJECTIVE CAMERA

2. CLOUDS OBSCURE OR DEGRADE APPROXIMATELY 25 PERCENT OF THE IMAGERY.

3. THE MATERIAL WAS PROCESSED AT [REDACTED] THE MISSION EMPLOYED THE USUAL SENSORS. THE ONLY MATERIALS EVALUATED ARE THE ORIGINAL NEGATIVES FROM THE OPERATIONAL AND TECHNICAL OBJECTIVE CAMERAS. THE TERRAIN OBJECTIVE CAMERA MATERIAL WAS USED TO DETERMINE THE AREAS OF 80 PERCENT CLOUD FREE PHOTOGRAPHY AND TO ASSIST IN THE CORRELATION OF THE FILM TO THE MISSION RECORDER SYSTEM (MRS) DATA.

4. ANALYSIS OF THE TECHNICAL OBJECTIVE CAMERA MATERIAL:

A. COMMENTS APPLICABLE TO BOTH CAMERAS.

(1) APPROXIMATELY 80 PERCENT OF THE PHOTOGRAPHY WAS ACQUIRED ABOVE 30 DEGREES OBLIQUITY.

(2) MINUS DENSITY STREAKS ASSOCIATED WITH THE PLATEN CONFIGURATION ARE PRESENT THROUGHOUT THE MISSION.

(3) TWO PLUS DENSITY STREAKS, EACH LOCATED 2.0 INCHES FROM THE EDGES OF THE FILM, ARE PRESENT THROUGHOUT.

(4) STATIC TRACES ARE DETECTED INTERMITTENTLY ALONG BOTH EDGES OF THE FILM.

(5) BANDING OCCURS THROUGHOUT THE MISSION.

(6) THE IMAGERY APPEARS TO BE OUT-OF-FOCUS AT THE BEGINNING OF THE MISSION. THE IMAGERY IMPROVES AFTER THE FIRST CAMERA OFF/ON, BUT THE BEST QUALITY OCCURS AFTER THE SECOND CAMERA OFF/ON.

(7) SMARING IS DETECTABLE ON THE HIGH OBLIQUE FRAMES.

3. LEFT CAMERA (AL) 3 /N 64-23

(1) A HEAT SPLICE IS LOCATED BETWEEN FRAMES 522/523.

(2) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 160/161, 239/240, AND 458/459.

DISTRIBUTION	
OFFICE	PI
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